

Subject <b>Abnormal Noise from Differential and Miss Match of Connect/Disconnect Timing</b>		Market <b>USA</b>
Service Category <b>Drivetrain</b>	Section <b>Axle/Differential</b>	
Applicability <b>2019 RAV4</b>		

**APPLICABLE VEHICLES**

<b>2019</b>	<b>RAV4</b>
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**CONDITION**

This Tech Tip applies to 2019 model year RAV4 Adventure/Limited grade equipped with torque vectoring AWD system ONLY.

Some customers may experience an abnormal noise from rear differential after driving the vehicle for 15-20 minutes or more.

This condition occurs with "Normal" drive mode selected.

**RECOMMENDATIONS**

1. Confirm if the vehicle was produced BEFORE the Production Change Effective VINs shown below.

MODEL	PLANT	DRIVETRAIN	PRODUCTION CHANGE EFFECTIVE VIN
RAV4	TMMC - C	AWD	2T3N1RFV#KC053454
			2T3J1RFV#KC053454
	TMMC - W		2T3N1RFV#KW080109
			2T3J1RFV#KW080109
	Takaoka		JTMN1RFV#KJ023026
	Shokki #1		JTMN1RFV#KD041318
	Shokki #2		JTMN1RFV#KD522367

- **YES** — Continue to step 2.
- **NO** — Follow the repair procedure in T-SB-0067-20: '19-'20 RAV4: Abnormal Noise from Rear Differential During Connect/Disconnect Operation.

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**RECOMMENDATIONS**

2. Review the vehicles 4WD Data List and confirm 4WD Connect/Disconnect Timing.
  - A. Is there a miss match between the Front and Rear Axle Coupling Clutch Position Sensor for a duration more than 2 seconds at any speed?

Example:

Front Axle Coupling Clutch Position Sensor Status	Disconnect
Rear Axle Coupling Clutch Position Sensor Status	Connect

Or

Front Axle Coupling Clutch Position Sensor Status	Connect
Rear Axle Coupling Clutch Position Sensor Status	Disconnect

- **YES** — Please create a TAS case and contact TAS for instruction prior to diagnosing or repairing of the vehicle. If it is a weekend or holiday, continue with diagnosis and repair. Please save all parts and/or details and contact TAS on the next available workday.

**Note** - Please attach the "4WD snapshot" and the "Full Health Check" for checking the 4WD Cal ID by TAS agent when creating a TAS case prior to calling into TAS for Assistance.

- **NO** — Follow the repair procedure in T-SB-0067-20: '19-'20 RAV4: Abnormal Noise from Rear Differential During Connect/Disconnect Operation.

**LINK REFERENCES**

1. [T-SB-0067-20: '19-'20 RAV4: Abnormal Noise From Rear Differential During Connect/Disconnect Operation](#)